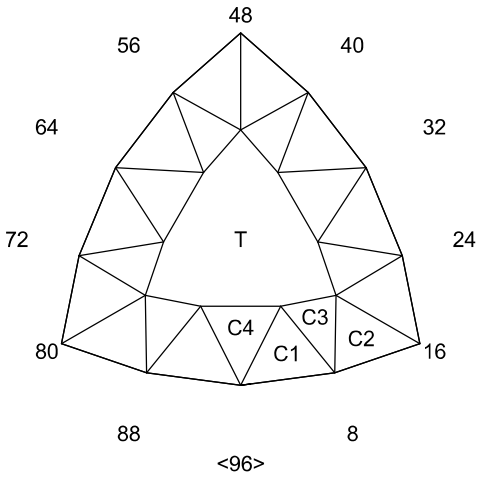

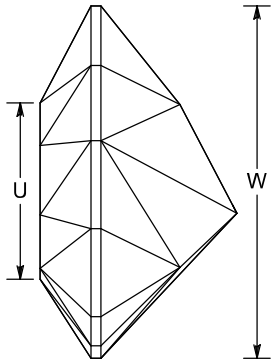

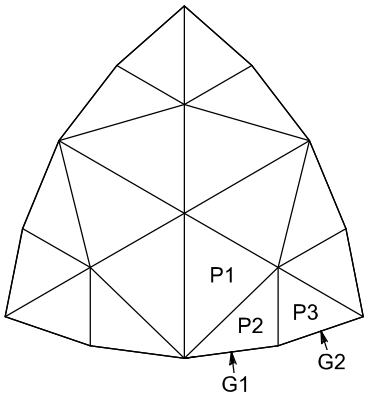

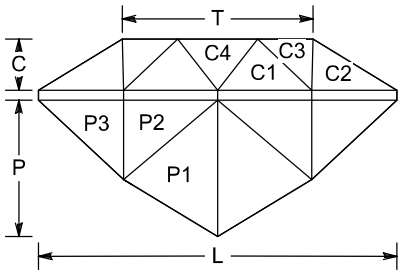

Emergent Phenomenon

by Arya Akhavan (September 2013)
Angles for R.I. = 1.620
40 + 12 girdles = 52 facets
3-fold, mirror-image symmetry
96 index
L/W = 1.019 T/W = 0.542 U/W = 0.501
P/W = 0.387 C/W = 0.145
Vol./W³ = 0.168

PAVILION

P1	43.30°	01-31-33-63-65-95	Cut to centerpoint.
G1	90.00°	02-30-34-62-66-94	Set stone size.
P2	45.68°	02-30-34-62-66-94	Level girdle.
P3	46.99°	05-27-37-59-69-91	Meet P1, P2
G2	90.00°	05-27-37-59-69-91	Level girdle.

CROWN

C1	35.00°	02-30-34-62-66-94	Set girdle width.
C2	35.00°	05-27-37-59-69-91	Level girdle.
C3	34.00°	03-29-35-61-67-93	Meet G1, G2, C1, C2
C4	32.93°	96-32-64	Meet G1, C1
T	0.00°	Table	Meet C1, C3, C4; C2, C3

This somewhat simple trillion has a deceptively complex reflection pattern, with an extremely high degree of contrast and an even larger number of virtual facets. Try looking at the raytrace in GemCAD to see why! Works in materials from quartz to CZ (RI = 1.54 - 2.16) with no changes, but I prefer it in peachy tourmaline.
Suggested size = 6-15 mm
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